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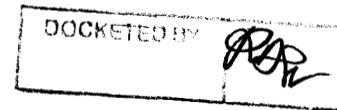
January 28, 2011

Arizona Corporation Commission  
Utilities Division - Docket Control  
1200 W. Washington Street  
Phoenix, Arizona 85007

Arizona Corporation Commission  
**DOCKETED**

JAN 28 2011

Re: Foresight Flying M, LLC  
Docket No. E-00000D-11-0017



Dear Docket Control:

Enclosed for filing in the above-referenced docket is the original and thirteen (13) copies of the 2011-2020 Ten Year Plan for Foresight Flying M, LLC.

Sincerely,

LEWIS AND ROCA LLP

*Alana C. Hake*

Alana C. Hake  
Attorneys for Foresight Flying M, LLC

ACH/ach  
Enclosures

# FORESIGHT FLYING M

January 28, 2011

Docket Control  
Arizona Corporation Commission  
1200 West Washington  
Phoenix, AZ 85007

Subject: Foresight Flying M LLC, "Grapevine Canyon Wind Project" Transmission Tie-Line Project  
Ten Year Plan for 2011--E-00000D-11-0017

To Whom It May Concern:

Pursuant to A.R.S. 40-360.02 (A), Foresight Flying M, LLC ("FFM", "Project Company"), hereby submits its Ten Year Plan filing for the year 2011 for the Grapevine Canyon Wind Transmission Tie-Line Project ("Project"). Information requirements associated with A.R.S. § 40-360.02 (C) are included as Appendix "A" to this filing.

The Grapevine Canyon Wind Transmission Tie-Line Project would connect the 500 megawatt Grapevine Canyon Wind Project to the Western Area Power Administration 345kV Flagstaff - Pinnacle Peak No. 1 and No. 2 transmission lines. The proposed 345-kV large generation interconnection would create a new interconnection approximately 22-miles southeast of the City of Flagstaff and 18-miles south of I-40. Appendix "B" includes a map depicting the Transmission Tie-Line Project and interconnection location. Such facilities would allow delivery of remotely-located renewable wind energy generation to power markets in the Western interconnect.

An environmental impact statement ("EIS") pursuant to the National Environmental Policy Act is underway. The U.S. Department of Energy, Western Area Power Administration ("Western") is acting as the lead federal agency overseeing the EIS process. The U.S. Department of Agriculture, Forest Service, Coconino National Forest, and the Arizona State Land Department are cooperating agencies. Proposed and alternative transmission tie-line alignments are being evaluated, as depicted on the Appendix "B" map.

The Project Company anticipates filing an Application for a Certificate of Environmental Compatibility upon preparation of the final EIS this year.



Foresight Flying M, LLC  
c/o Foresight Wind Energy, LLC, Manager  
657 Mission Street, Suite 504 ▲ San Francisco, CA 94105  
415-495-0700 ▲ Fax 415-495-0727 ▲ [www.foresightwind.com](http://www.foresightwind.com)

Please direct any questions that may arise from this report to the undersigned at 415-495-0700.

Sincerely,

A handwritten signature in black ink, appearing to read 'Warren W. Byrne', with a long horizontal flourish extending to the right.

Warren W. Byrne  
Foresight Flying M, LLC  
c/o Foresight Wind Energy (Manager)

cc: File

Steven M. Olea, Utilities Division, Arizona Corporation Commission  
Janice Alward, Esq., Legal Division, Arizona Corporation Commission  
Thomas H. Campbell, Esq., Lewis and Roca LLP

## Appendix A

### **40-360.02 (C) (1).**

***The size and proposed route of any transmission lines or location of each plant proposed to be constructed.***

The Grapevine Canyon Wind Transmission Tie-Line Project (Project) is a proposed 345kV generation tie line of up to 15 miles in length that will connect the Grapevine Canyon Wind Park to the existing dual circuit 345kV Glen Canyon to Pinnacle transmission line owned and operated by Western Area Power Administration ("Western").

The Grapevine Canyon Wind Park is anticipated to be built in two or more phases up to a maximum 500 megawatts nameplate capacity. The electricity generated by the wind park would be gathered at the step-up substation within the wind park area, where the voltage would be transformed from 34.5kV to 345kV. The Grapevine Canyon Transmission Tie-Line Project would be a new 345kV single-circuit electrical transmission tie-line that would be constructed between the wind park step-up substation and Western's existing Glen Canyon-Pinnacle Peak No. 1 and No. 2 345-kV transmission lines. The Project would be approximately 15 miles in length, extending 8.5 miles across National Forest system lands and up to approximately 6.5 miles across private lands and trust lands administered by the Arizona State Land Department. The Glen Canyon-Pinnacle Peak 345kV transmission lines are part of the regional electrical grid. Connecting into this existing electrical transmission system would allow electricity produced at the wind project to be sold and utilized by Arizona and regional utilities.

The Project would include pole structures, conductors, and associated access roads. Structures are expected to be gray steel pole structures with non-reflective finishes and would be approximately 120 feet in height and spaced approximately every 1,000 feet. Approximately 80 steel monopole structures would be erected. The Project Company would obtain a right-of-way from the National Forest for the portion of the tie-line that crosses Forest Service land. A minimum 50 year right-of-way, 200 feet in width, would be acquired for construction, operation, access, and maintenance. The Project is a component of the EIS. Construction of the transmission tie-line project is expected to temporarily disturb 345 to 413 acres and permanently disturb 19 to 25 acres of land.

### **40-360.02 (C) (2).**

***The purpose to be served by each proposed transmission line or plant.***

The Grapevine Canyon Wind Transmission Tie-Line Project will interconnect the Grapevine Canyon Wind energy generation project to the regional electricity grid enabling clean, renewable energy to be sold to local and regional utilities.

**40-360.02 (C) (3).**

***The estimated date by which each transmission line or plant will be in operation.***

The Grapevine Canyon Wind Transmission Tie-Line Project is anticipated to be constructed in 2013 and to be commissioned by the end of 2013.

**40-360.02 (C) (4).**

***The average and maximum power output measured in megawatts of each plant to be installed.***

Not applicable

**40-360.02 (C) (5).**

***The expected capacity factor for each proposed plant.***

Not applicable

**40-360.02 (C) (6).**

***The type of fuel to be used for each proposed plant.***

Not applicable

**40-360.02 (C) (7).**

***The plans for any new facilities shall include a power flow and stability analysis report showing the effect on the current Arizona electric transmission system. Transmission owners shall provide the technical reports, analysis, or basis for projects that are included for serving customer load growth in their service territories.***

FFM is providing to ACC Staff a copy of the System Impact Study ("SIS") dated January 22, 2009. This study was conducted by K. R. Saline & Associates, PLC, at the direction of Western. The SIS was performed to identify impacts to reliability as a result of the requested large generation interconnection. Power flow, voltage stability, post transient stability, and short circuit studies were conducted to determine impacts to the existing system. Of note, while the SIS indicates the tie line will be double circuit, subsequent discussion and analysis with Western has confirmed that a single circuit will be used and will meet the same performance criteria. The Large Generator Interconnection Agreement ("LGIA") will reflect the use of single-circuit line. Per the Study Report, the SIS results indicate that the Project has little or no impact to the existing system, and by interconnecting south of the Flagstaff 345kV bus the Project adds reliability to the Glen Canyon system.



## Appendix “B”

## Grapevine Canyon Wind Project Transmission Tie Line Project

